



COVER The AAAS Annual Meeting is a unique collage of science—each year scientists from every discipline attend sessions to expand the scope of their research, extend their funding and collaborative networks, and let their minds travel to the far reaches of science. The cover illustrates the breadth of the scientific voyage offered at AAAS☆92 in Chicago from 6 to 11 February 1992. See page 1029 for a complete program and page 1046 for a key to the cover. [Collage by Diana DeFrancesco]

- 986 Hydrogen-Helium Mixtures at Megabar Pressures: Implications for Jupiter and Saturn: J. E. KLEPEIS, K. J. SCHAFER, T. W. BARBEE III, M. ROSS
- 989 Superconductivity in the Fullerenes: C. M. VARMA, J. ZANEN, K. RAGHAVACHARI
- 992 Long-Term History of Chesapeake Bay Anoxia: S. R. COOPER AND G. S. BRUSH
- 996 Magma Generation on Mars: Amount, Rates, and Comparisons with Earth, Moon, and Venus: R. GREELEY AND B. D. SCHNEID
- 998 Indole-3-Acetic Acid Biosynthesis in the Mutant Maize *orange pericarp*, a Tryptophan Auxotroph: A. D. WRIGHT, M. B. SAMPSON, M. G. NEUFFER, L. MICHALCZUK, J. P. SLOVIN, J. D. COHEN
- 1001 DNA Deaminating Ability and Genotoxicity of Nitric Oxide and its Progenitors: D. A. WINK, K. S. KASPRZAK, C. M. MARAGOS, R. K. ELESAPURU, M. MISRA, T. M. DUNAMS, T. A. CEBULA, W. H. KOCH, A. W. ANDREWS, J. S. ALLEN, L. K. KEEFER
- 1003 Prediction of a Crystallization Pathway for Z-DNA Hexanucleotides: P. S. HO, T. F. KAGAWA, K. TSENG, G. P. SCHROTH, G. ZHOU
- 1007 Structures of Free and Inhibited Human Secretory Phospholipase A₂ from Inflammatory Exudate: D. L. SCOTT, S. P. WHITE, J. L. BROWNING, J. J. ROSA, M. H. GELB, P. B. SIGLER
- 1010 Induction of Type I Diabetes by Kilham's Rat Virus in Diabetes-Resistant BB/Wor Rats: D. L. GUBERSKI, V. A. THOMAS, W. R. SHEK, A. A. LIKE, E. S. HANDLER, A. A. ROSSINI, J. E. WALLACE, R. M. WELSH
- 1014 Oscillations of Cytosolic Sodium During Calcium Oscillations in Exocrine Acinar Cells: M. M. Y. WONG AND J. K. FOSKETT
- 1016 GPI-Anchored Cell-Surface Molecules Complexed to Protein Tyrosine Kinases: I. ŠTEFANOVA, V. HOŘEJŠÍ, I. J. ANSOTEGUI, W. KNAPP, H. STOCKINGER
- 1019 Activity-Dependent Synaptic Competition in Vitro: Heterosynaptic Suppression of Developing Synapses: Y.-J. LO AND M.-M. POO
- 1022 Expression Cloning of an Adenylate Cyclase-Coupled Calcitonin Receptor: H. Y. LIN, T. L. HARRIS, M. S. FLANNERY, A. ARUFFO, E. H. KAJI, A. GORN, L. F. KOLAKOWSKI, JR., H. F. LODISH, S. R. GOLDRING
- 1024 A G Protein-Linked Receptor for Parathyroid Hormone and Parathyroid Hormone-Related Peptide: H. JÜPPNER, A.-B. ABOU-SAMRA, M. FREEMAN, X. F. KONG, E. SCHIPANI, J. RICHARDS, L. F. KOLAKOWSKI, JR., J. HOCK, *et al.*

AAAS Meetings

- 1029 AAAS☆92: The AAAS Annual Meeting, 6-11 February 1991, Chicago ■ Plenary Lectures ■ Employment Exchange ■ Seminars ■ Symposia & Topical Lectures Exhibition ■ Tours ■ Registration forms and general information

Book Reviews

- 1049 Fifty Years of Genetic Load, *reviewed by* J. H. GILLESPIE ■ Reading the Shape of Nature, J. MAIENSCHIEIN ■ Auroral Physics, T. N. DAVIS ■ SQUIDS, the Josephson Effects and Superconducting Electronics, R. KOCH ■ Vignettes from Physics ■ Books Received

Products & Materials

- 1054 Monoclonal Antibodies ■ Antibody Subclass Test ■ Oligonucleotide Assay Kit ■ "Super Rare Cutting" Endonuclease ■ Capillary Electrophoresis System ■ Micromanipulator ■ Micro-Injector ■ Nylon Moisture Barriers ■ Microsampling Microscopy Technique ■ Literature

Board of Directors

Donald N. Langenberg
*Retiring President,
Chairman*

Leon M. Lederman
President

F. Sherwood Rowland
President-elect

Mary Ellen Avery
Francisco J. Ayala
Eugene H. Cota-Robles
Robert A. Frosch
Joseph G. Gavin, Jr.
Florence P. Haseltine
Jean'ne M. Shreeve
Warren M. Washington

William T. Golden
Treasurer

Richard S. Nicholson
Executive Officer

Editorial Board

Charles J. Amtzen
Elizabeth E. Bailey
David Baltimore
William F. Brinkman
E. Margaret Burbidge
Pierre-Gilles de Gennes
Joseph L. Goldstein
Mary L. Good
Harry B. Gray
John J. Hopfield
F. Clark Howell
Paul A. Marks
Yasutomi Nishizuka
Helen M. Ranney
Robert M. Solow
Edward C. Stone
James D. Watson

Board of Reviewing Editors

John Abelson
Frederick W. Alt
Don L. Anderson
Stephen J. Benkovic
David E. Bloom
Floyd E. Bloom
Henry R. Bourne
James J. Bull
Kathryn Calame
Charles R. Cantor
C. Thomas Caskey
Dennis W. Choi
Raiph J. Cicerone
John M. Coffin
Bruce F. Eldridge
Paul T. Englund
Fredric S. Fay

Douglas T. Fearon
Harry A. Fozzard
Victor R. Fuchs
Theodore H. Geballe
Margaret J. Geller
Roger I. M. Glass
Stephen P. Goff
Corey S. Goodman
Stephen J. Gould
Ira Herskowitz
Eric F. Johnson
Stephen M. Kosslyn
Konrad B. Krauskopf
Charles S. Levings III
Harvey F. Lodish
Richard Losick
Anthony R. Means
Mortimer Mishkin
Roger A. Nicoll
William H. Orme-Johnson III

Stuart L. Pimm
Yeshayau Pocker
Dennis A. Powers
Ralph S. Quatrano
Erkki Ruoslahti
Thomas W. Schoener
Ronald H. Schwartz
Terrence J. Sejnowski
Thomas A. Steitz
Richard F. Thompson
Robert T. N. Tjian
Emil R. Unanue
Geerat J. Vermeij
Bert Vogelstein
Harold Weintraub
Zena Werb
George M. Whitesides
Owen N. Witte
William B. Wood
Keith Yamamoto